

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of

Chang, et al.

Serial No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Filing Date: December 2, 2003

Examiner: Unknown

For: **SYSTEM AND METHOD FOR INDEXING, SEARCHING AND RETRIEVING SEMANTIC OBJECTS**

Honorable Commissioner of Patents  
Alexandria, Virginia 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Under the provisions of 37 CFR §1.97 through §1.99 and pursuant to applicants' duty of disclosure under 37 CFR §1.56, applicants respectfully bring the following documents listed on the attached form PTO-1449, to the attention of the Examiner in charge of the above-identified application. Copies of the listed documents are provided herewith for the convenience of the Examiner.

This citation does not constitute an admission that the references are relevant or material to the claims. They are only cited as constituting related art of which the applicant is aware.

It is respectfully requested that the listed references be considered by the Examiner and formally made of record in this application.

Please charge any deficiencies in fees and credit any overpayment of fees to  
Assignee's Deposit Account No. 50-0510.

Respectfully submitted,

  
James E. Howard  
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Date: 12/2/03

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**INFORMATION DISCLOSURE CITATION**  
*(Use several sheets if necessary)*

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ATTY DOCKET NO.  
**YOR920030555US1**

SERIAL NO.  
**None Yet Assigned**

Chang, et al.

**FILING**

**December 2, 2003**

**GROUP**

## None Yet Assigned

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

Pitas, et al., "Texture Analysis and Segmentation of Seismic Images", Acoustics, Speech, and Signal Processing, 1989, ICASSP-89, pp. 1437-1440, vol. 3.

Strelitz, et al., "Integral Transforms, Data Compression, and Automatic Analysis of Seismic Sections", Geoscience and Remote Sensing, IEEE Transactions, 1990, pp. 982-991, vol. 28.

**EXAMINER**

**DATE CONSIDERED**

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| INFORMATION DISCLOSURE CITATION<br>(Use several sheets if necessary)   |  |                 | ATTY DOCKET NO.<br>YOR920030555US1   |         | SERIAL NO.<br>None Yet Assigned |                               |                            |    |
|--|--|-----------------|--|---------|---------------------------------|-------------------------------|----------------------------|----|
|  |  |                 | Chang, et al.  |         | FILING<br>December 2, 2003      |                               | GROUP<br>None Yet Assigned |    |
| U.S. PATENT DOCUMENTS  |  |                 |  |         |                                 |                               |                            |    |
| *EXAMINER<br>INITIAL   |  | DOCUMENT NUMBER | DATE   | NAME    | CLASS                           | SUBCLASS                      |                            |    |
|  |  |                 |  |         |                                 | FILING DATE<br>IF APPROPRIATE |                            |    |
| FOREIGN PATENT DOCUMENTS   |  |                 |  |         |                                 |                               |                            |    |
|  |  | DOCUMENT NUMBER | DATE   | COUNTRY | CLASS                           | SUBCLASS                      | TRANSLATION                |    |
|  |  |                 |  |         |                                 |                               | YES                        | NO |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) |  |                 |  |         |                                 |                               |                            |    |
|  |  |                 | Zheng-He Yao, et al., "A Pattern Recognition Approach to Detect Oil/Gas Reservoirs in Sand/Shale Sediments", 1992, pp. 462-465, Vol. II.                         |         |                                 |                               |                            |    |
|  |  |                 | Chang, et al., "PetroSPIRE: Indexing and Retrieval of Seismic Data for Oil and Gas Exploration", Society of Exploration Geologists Annual Meeting, October 2003. |         |                                 |                               |                            |    |
| EXAMINER   |  |                 | DATE CONSIDERED  |         |                                 |                               |                            |    |

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